Standalone (built-in PC), fully automated asynchronous CD/DVD Duplication System

User Manual

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All Pro Solutions shall not be liable for direct, indirect, special, incidental or consequential damages arising from the use or inability to use this product or documentation. In particular, All Pro Solutions shall not have liability for any hardware used with this product, including the costs of repairing, replacing or recovering such hardware.

DAMAGE

This shipment was packaged and delivered to the carrier with the utmost care to ensure safe delivery of goods. If your OLYMPUS system is damaged during shipment, please contact the freight carrier first, then contact your distributor or All Pro Solutions

INCOMPLETE ORDERS

Check the shipment against the shipping papers thoroughly and immediately to ensure receivership of a full shipment. Do not discard packing materials or cases. Check out all possibilities before reporting a shortage or incomplete order.

SAVE PACKAGING

You have to save your packaging materials so that if the need arises you can return your system for service. Sending a system to All Pro Solutions without the original packaging will void the warranty. This packaging was designed specifically for shipping your system. Other packaging may not be as suitable.

IF YOUR SYSTEM REQUIRES SUPPORT

If your system requires servicing, you should first contact the place of purchase and request support or contact All Pro Solutions as follows:

Phone: (803) 980-4141
Email: techsupport@allprosolutions.com

Before shipping any item to All Pro Solutions, first obtain a RMA (Return Material Authorization) Number from All Pro Solutions support. This number must be placed on the outside of the product packaging where it can be easily found; otherwise the item will be refused and returned at the
sender’s expense

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Quick Start

Getting started

The removal of this product should be undertaken by at least 2 people because of its size and weight. Please ensure safe manual handling procedures are followed

Carefully remove your system from it's shipping box and verify that all parts are present. If there are missing or damaged parts contact *All Pro Solutions* or an authorized distributor immediately to correct any miss-packed or missing parts.

You should find the following packaged with your duplicator:

- Autoloader: AU4 (up to 330 disc capacity), or AU7 (up to 630 disc capacity) or AU9 (up to 900 disc capacity), depends on your model configuration
- Tower populated with drives
- Driver Discs – Serial-USB converter
- This User Manual
- Windows Software and Manual
- PoINT Publisher NG - Installed
- 5/64 hex head key (Allen wrench)
- Warranty card

For systems configured with a printer, besides the above, you should find:

- Pro IV, SpeedJet, or Teac P55C Printer w/ applicable drivers/discs
- Printer Plate (mounted on the bottom of printer)
- Printer Power Cable
- Printer Control Cable
- Printer Cable (USB or Parallel)

NOTE:
If your system is damaged during shipment, please contact the freight carrier first, and then contact your distributor or All Pro Solutions.
You have to save your shipping materials so that if the need arises you can return your system for service. Sending a system to All Pro Solutions without the original packaging will void the warranty. This packaging was designed specifically for shipping your system. Other packaging may not be as suitable. If you have already

disposed of your packaging materials, you can receive a new set from All Pro Solutions for a fee.

Manufacturer Recommendations

☞ Before starting to operate your system, please read the User's Manual **entirely!**

☞ Place your system on a flat, steady surface in a climate controlled environment with regular office light (no bright light to reflect into the system's sensor), free of dirt, dust, excess humidity, excessive heat or electro-magnetic interference.

☞ Please fan the media before placing it into the Input Hopper and align it. Media has to slide easy on top of each other

☞ Do not use un-expensive media because it can generate problems: media sticks together and 2 or more discs can be loaded even if the picker it's designed to grab just one.

☞ For audio duplication, please use good quality media and max 16x speed on CD

☞ Because your system is equipped with up 24x DVD drives, use only 52x certified CD and 16x certified DVD media.

☞ From time to time, the drives have to be cleaned using a CD Lens cleaning Kit or blowing air using a compressed gas duster.

☞ The 2 shafts used by the Picker to travel up and down should be oiled from time to time; use the multipurpose oil provided

Mounting the tower

For all systems, the tower is provided with a tower plate mounted on the bottom. This plate will help in stabilizing the tower on the adapter (see Fig.1).
Make sure all thumbscrews are loose, place the tower on top of the adapter matching the blue/pink marks (see Fig.2).

Do not tighten the thumbscrews until the drive alignment operation is performed. (see page 6)

Mounting the Printer

This autoloader can be used with Pro III, SpeedJet or Teac P55C printers and uses the same mounting system for either one of them.

Place your printer (with its own plate mounted on the bottom) on top of tower. Do not tighten the screws until the printer alignment is made. Proceed with "Connecting Power" (page 4) and "Drive and Printer Alignment" (see page 6).
When alignment is OK, please tighten front left and front right thumbscrews # 3 at the same time. Repeat this operation for rear left and rear right thumbscrews # 3.

Fig. 1
System unassembled – 4 drives and printer (AU7 autoloaders)

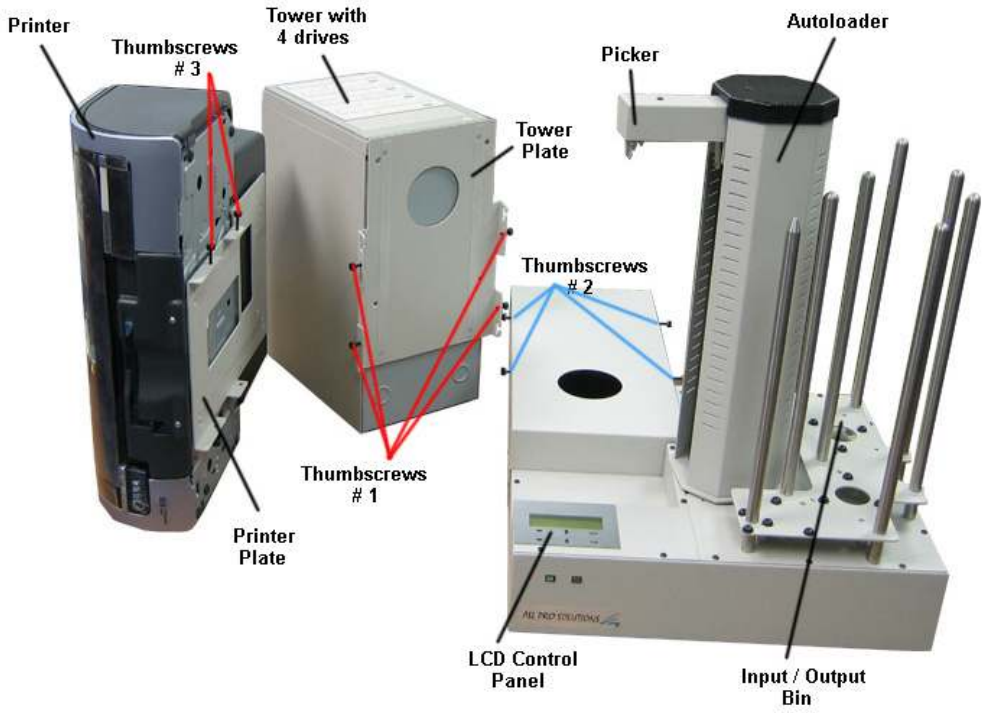
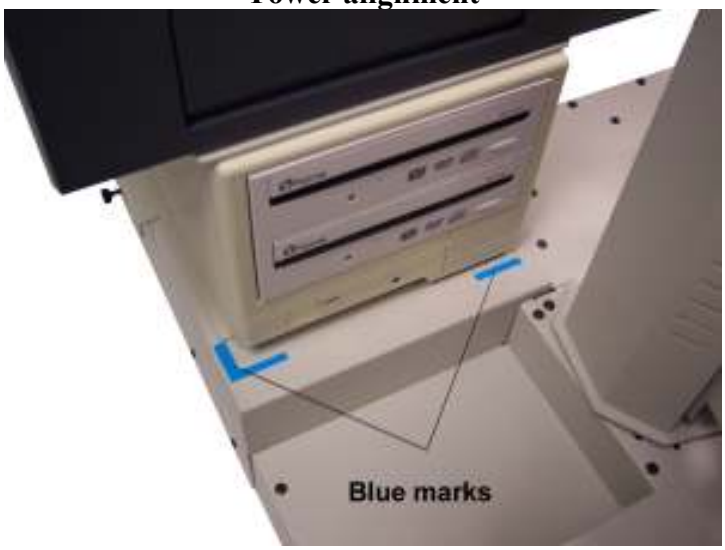


Fig.2
Tower alignment



Operating Environment

Your APS System should be used in a climate-controlled environment free of dirt, dust, excess humidity, excessive heat or electro-magnetic interference. Your APS System should be placed on a sturdy level surface – away from sources of vibration and excessive lighting.

Allow at least four (4) inches of clearance around the sides and back of the system for ventilation.

Connecting power

Plug one power cable into the tower system, one into the autoloader and another one into the printer. Plug each power cable into the proper power source and connect all the other cables as shown in fig. 3a, 3b, 3c, and 3d on the following page.

Important

Before powering on your system, please ensure the picker (see fig.1, page 3) is in the top position.

Please power on your APS system in the following order:

1. **Printer**
2. **Tower**
3. **Autoloader**.

Proceed with *Drive and Printer Alignment* on page 6.

Fig. 3a
Cables supplied with autoloader (power cables not shown)

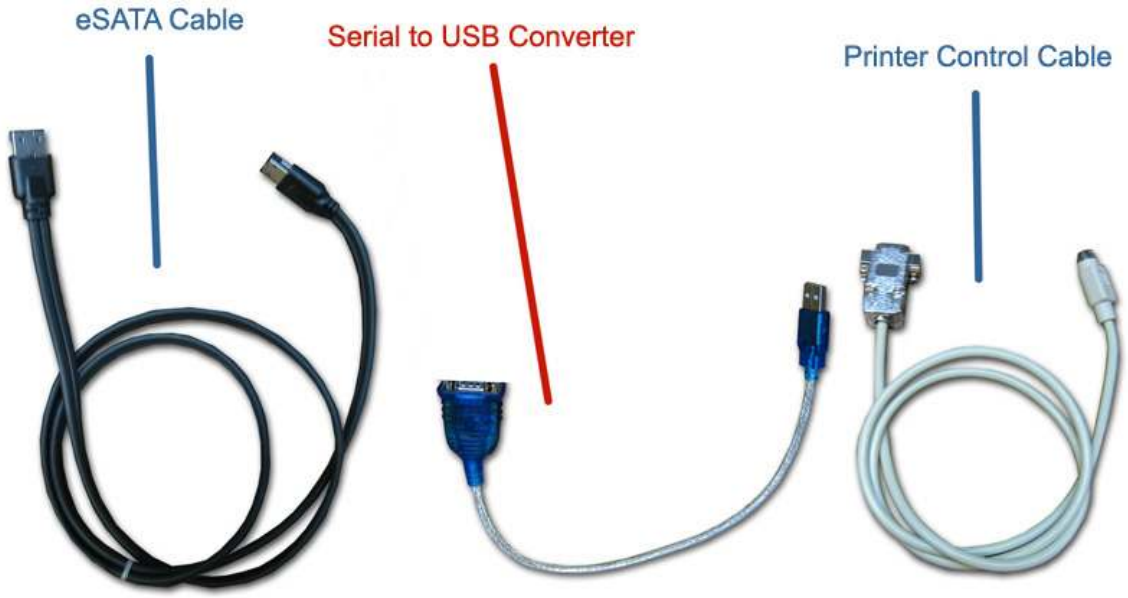


Fig 3b.
Autoloader and PC connections

Fig 3c.
4-Drive Tower connections

Fig 3d.
7/8 Drive Tower connections

Drive and Printer alignment

Open **Align.exe** on your desktop and you will see **"TEST"** under **Saved Sessions** as in fig. 4a. Make sure the connection is on COM3 and the settings are correct as in fig. 4b. To make sure you have plugged the Serial to USB converter into the correct USB port, please Right Click on the **My Computer** on the Desktop, select **Manage**, and then select **Device Manager** as in fig. 4c. When you open the TEST connection you will have access to the communication port for alignment. Please open the top drive and use the commands below to align the tower. Then follow the same steps for the printer. Make sure **CAPS LOCK is ON**.

C – Calibrates the picker to the home position
I – Inserts Disc into open drive/printer tray
A - Accept, grabs disc from tray and places in output spindle
2 – Opens Printer tray
1 – Closes Printer Tray

If you don't have good alignment, adjust the tower (left and right, back and forth) and repeat the steps above until you obtain the right alignment.

Fig. 4a Alignment Settings

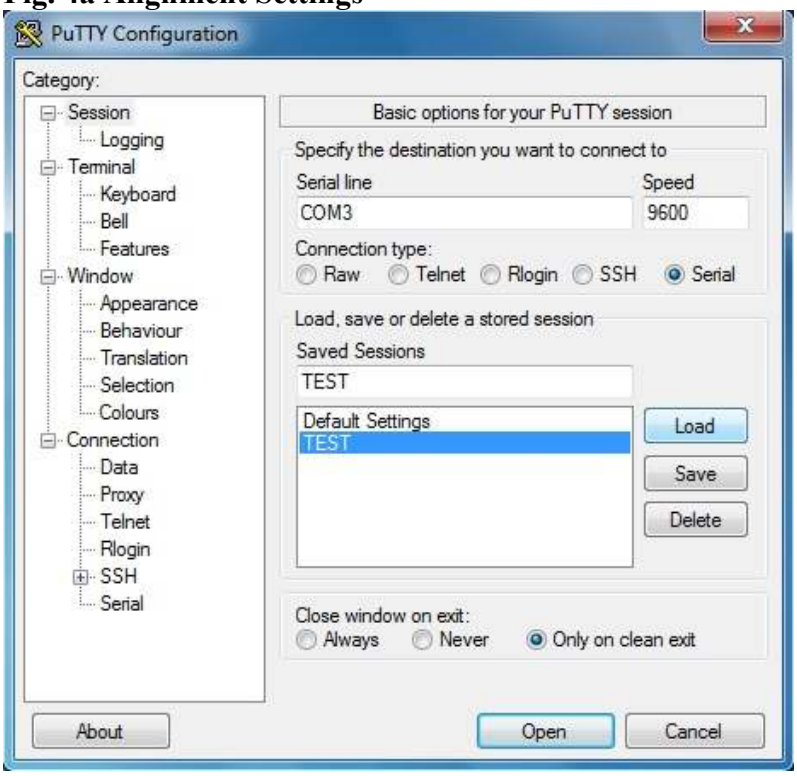


Fig. 4b

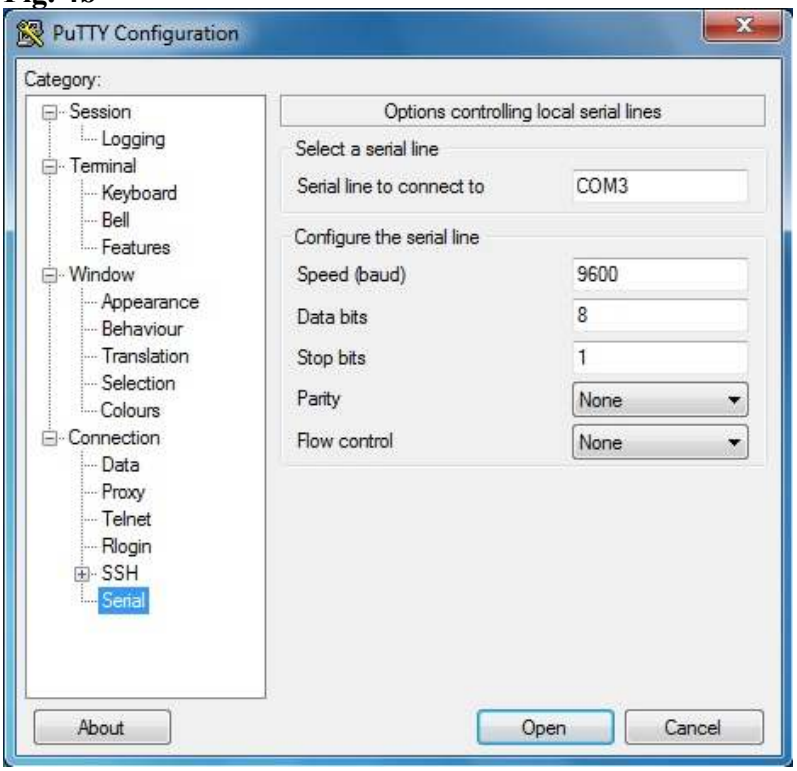
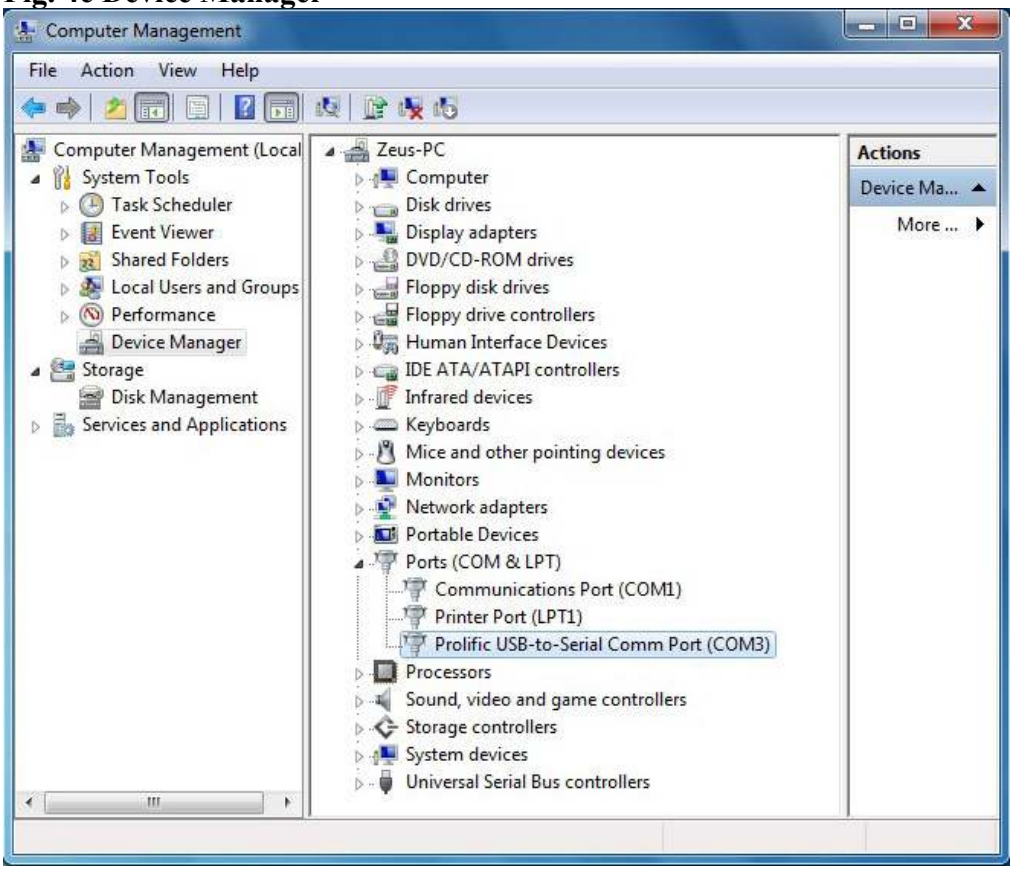
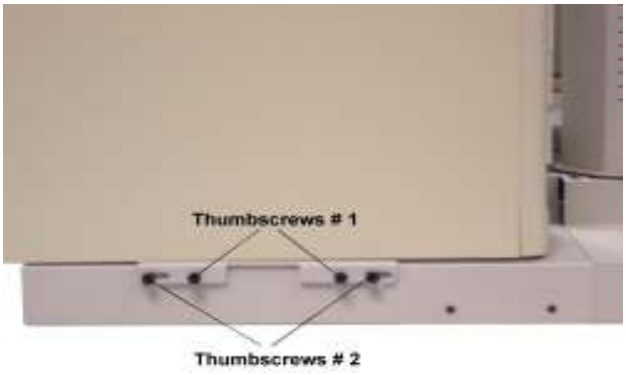


Fig. 4c Device Manager



Once the tower is aligned, gently tighten thumbscrews # 1 on both sides until they touch the adapter and then tighten thumbscrews # 2 (they attach the tower to the autolaoder – see Fig.7). Repeat the same steps to align the printer.

Fig. 5 Side View



Now cycle the power to your system. Remember to turn on in this sequence: Printer, Tower, Autoloader/PC.

Overview

Before you start using this system, please read the following to ensure proper operation:

DVD Duplication Limitations

The DVD system will not copy any DVDs that have Copy Protection encoded in the content. Typically, most DVDs you purchase or rent from a store, contain Copy Protection.
In addition to the copy protection limitation, the autoloader will only copy a DVD5 format (4.7 GB) disc to another DVD5 format recordable DVD media. If your autoloader has double layer/dual layer capability, you can copy a DVD9 format (8.5 GB) disc to another DVD9 format recordable DVD media, but you cannot duplicate a DVD5 format disc on to a DVD9 format recordable media or vice versa without enabling this feature first.

Temperature Warning

If the system was stored in a location where the temperature dropped below 32° F (0° C) within the past 24 hours, leave the autoloader in a warm room with temperatures at least 65° F (19° C) for four hours prior to powering it on for the first time. Failure to do so may cause irreparable harm and prevent the autoloader from functioning.

Maintenance

It is very important to operate and keep the autoloader in a dust free, clean environment since dust is the number one killer of CD/DVD recording devices. Failure to do so can severely damage your autoloader. We strongly suggest that you constantly use an Air Duster (Canned Air) to clear off any dust on the surface of the autoloader.

Note: Do not try to use an Air Duster to clean the autoloader while the writer trays are open. In doing so, you may inadvertently blow dust into the recording device and damage it.

Disc Static and Sticky Media Issues

The most common problems when using an autoloader are the disc static and sticky media issues. These static charge problems cause multiple discs to stick together, resulting in improper operation and more severely, can shock the robotic arm while loading a disc that causes the system freeze. Even though the autoloader has a sticky media separator function to prevent the sticky media, but you should still follow these steps to prevent sticky media from disrupting your operation and protect your system from disc static charge.

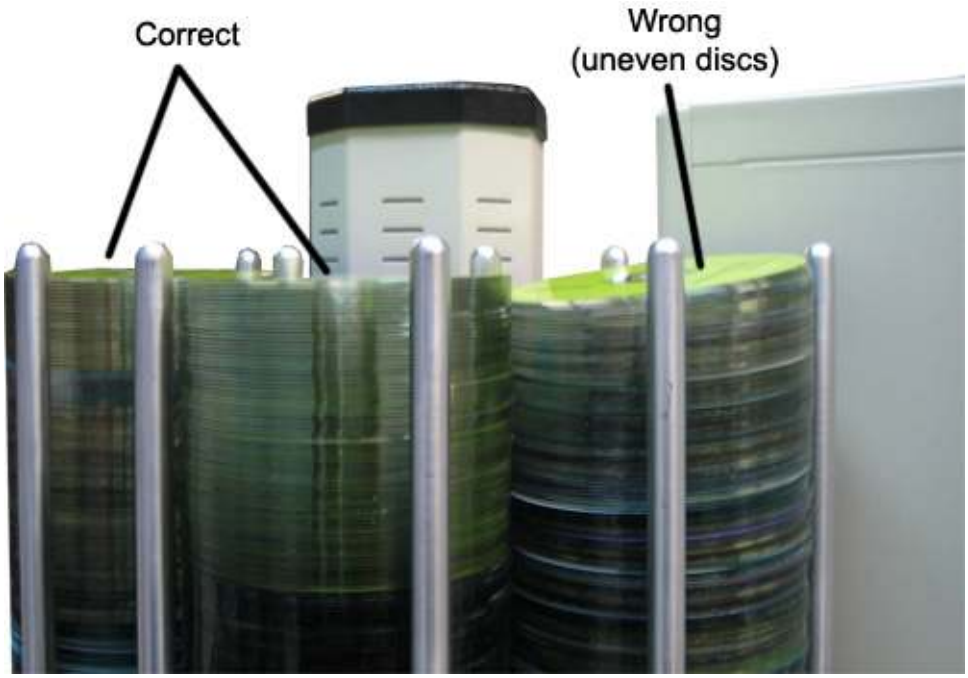
This issue is most commonly seen when you buy a 100 pack of blank discs and insert them into the autoloader without any treatment. If you have experienced this kind of problem, please do the following to remove the adhesive static between the discs:

Separate the blank discs before you place them into the autoloader's bins and align them using the Output Bin rod. Separating them will greatly reduce the static between discs. See pictures below:

If this doesn't achieve the desired outcome, use an air duster (canned air) to blow air around the circular edge of the blank discs. This process reduces the static between the discs up to 90%. The amount of air to use depends on factors specific to your environment.

Disc Placement Issue

Another common problem when using an autoloader is the placement of media into the bins. Placing the media into the bins properly can avoid possible picking errors when operating the autoloader. Even though the autoloader is designed with certain tolerance adjustments to prevent mishandling by the picking arm, failures may still arise if the bins are not loaded correctly. All media loaded into the bins should be flat and not slanted at an angle to ensure the picking arm can securely grab the disc. Be sure not to load too many discs into the bins as well as this may cause errors in placement and loading. The figure below shows the proper and incorrect disc placements when loading media into the bins



The Robotic Platform

The robotic arm picks blank discs from Input Bin # 1 first, and places the successful copies into the Output Bin. Once Input Bin # 1 is empty, it picks blank discs from Input Bin # 2, and places the successful copies into Input Bin # 1 which becomes Output Bin # 2. It then picks from Input Bin # 3 and places into Input Bin # 2 which becomes Output Bin # 3 and so on. Reject discs are placed on to the deck below the drive trays. (Throughout this manual, this area is also referred as “Reject Area”).

Basic Operation

Please turn on your system in the following order: **Printer, Tower, Autoloader/PC**. If the printer tray opens automatically, please push tray button to close.
Keep this order every time you turn on your system

Your system comes with all software (required for your configuration) already installed. If you need to reconfigure the settings or have reinstalled the software please see steps below:

Drive Selection

- Make sure all devices (Autoloader, Drives, and Printer – if applicable) are powered on
- Open PoINT Publisher NG Server
- On the menu bar click **Configuration** and select **Settings**
- Click the **Device Configuration** tab
- Click the **Setup** button
- In the **Loader COM Port** box make sure it says **Port COM 3**
- In the **Printer** box select your printer, if not applicable leave it at **No Printer**
- In **Drive assignment** you will see **Device 1: not configured**
- Select this by left clicking once and click the **ADD** button
- A list of recorders will open up, select a drive and click the **Identify** button. This will open and close the drive.
- Verify that this is the correct drive you want to select and click **OK**
- Repeat the steps until all drives have been added
- Once done click **Ok**
- On the Settings window click **Apply** and then click **OK**

Setting the Media Type for the Input Bins

- On the menu bar click **Configuration** and select **Settings**
- Click the **Bins** tab
- Where it says **Media Type** click the drop down box and choose the appropriate media
- Click **Apply** and then click **OK**

(This needs to be done if you are switching between CD & DVD media)

Printer Support

If your configuration includes a printer, follow the instructions in your Printer User Manual to create a label file.

Print files accepted: .prn, .plf, .btw

Plf = Point Label Editor Files (Recommended using the PoINT Label Editor)
Prn = Raw Label File
Btw = Bartender Label Files (only available if your package supports Advanced Print Option)

- To add a label to a job right click the job and select **Properties**
- Left click the printing tab and select the correct radio button that you want to use
  - Click **Print raw file** to use a prn file
  - Click **Print through label editor** to use a plf file
  - Click **Print through other application** to use a btw file
- Below you will have a **Select** box to select the appropriate file
- Once the file is selected click **Apply** and **OK**

For more instructions on operation, please refer to the PoINT Publisher NG software manual included with the system, and your printer User Manuals.